

IMPERIAL REFINING COMPANY

Ardmore, Carter County, Oklahoma

EPA Region 6
EPA ID# OK0002024099
Site ID: 0605091
Contact: Katrina Higgins-Coltrain 214.665.8143
State Congressional District: 4
Fact Sheet Updated: November 2007



Current Status

The Oklahoma Department of Environmental Quality (ODEQ) and the Environmental Protection Agency (EPA) have completed the following site documents which are available for public viewing at the Ardmore Public library: the Remedial Investigation Report, the Human Health Baseline Risk Assessment, Feasibility Study Report, and the Ecological Baseline Risk Assessment.

The EPA and ODEQ released the Proposed Plan on September 3, 2007, for public review and comment through October 12, 2007. The ODEQ and EPA held a public meeting on September 20, 2007, to present the Proposed Plan and hear community comment. With the completion of the comment period, EPA and ODEQ began work on the Record of Decision and Responsiveness Summary. The Record of Decision is expected to be completed by the end of 2007.

Benefits

Thirteen Areas of Concern (AOCs) were identified at the site representing either potential primary sources of contamination (Refining Process Area, Vertical Tank Remnants, Waste Areas, Horizontal Tanks); potential areas that had been contaminated by the primary sources and may, themselves, have become secondary contamination sources (Drainages, East and West Ponds, Soils, Wet Areas, and Sand Creek); or areas that represent background or affected locations/media of concern (Background, Air and the Probable Point of Entry into Sand Creek).

Water, soil, sediment, plant tissue and fish were analyzed for target analyte list (TAL) metals, target compound list (TCL) volatile organic compounds (VOCs), TCL semi volatile organic compounds (SVOCs), pesticides, and/or polychlorinated biphenols (PCBs). In addition, soils and sediments were also collected for toxicity testing of invertebrates.

Reuse: The site is approximately 72 acres. Potential reuse of the site will be evaluated and documented in the Record of Decision.

National Priorities List

Proposal Date: May 11, 2000
Final Date: July 27, 2000

Location: The site is located on Highway 142, Ardmore, Carter County, Oklahoma.

Population: An estimated 130 residents live within 200 feet of the facility and an estimated 23,427 individuals who live within four miles of the facility. There is no school or daycare center located within 200 feet of the facility.

Setting: Imperial Refining is an inactive and abandoned crude oil refining facility that operated from 1917 until 1934 when it declared bankruptcy.

Principal Pollutants: The waste piles are found in 12 areas onsite and are characterized as dry, asphalt-like tar mats associated with oil-contaminated soil on top of oil-stained clay. During the removal assessment, the volume for all 12 areas was estimated to be between 15,000 and 17,000 cubic yards. Analytical results from all assessments found BTEX (benzene, toluene, ethylbenzene, and xylene), PAHs (polynuclear aromatic hydrocarbons), O&G (oil and grease), and metals.

Based on the Human health and ecological risk assessments, the contaminants of concern are PAHs (polynuclear aromatic hydrocarbons) and metals, primarily Benzo(a)pyrene and arsenic.

Human Health and Ecological Risk Assessment

The potential exists for elevated health/ecological risks associated with PAHs (polynuclear aromatic hydrocarbons) and metals. The media of concern include soils, sediments, and waste areas.

Principal Threat Waste: All visible areas of waste and the underground storage tank (UST), including Waste Areas A through L and drainage 1.

Site Soils and Drainage Sediments: Areas where contaminant levels exceed residential and/or industrial cancer risk levels.

Pond and Creek Sediments: Sediments in the East and West Ponds and Sand Creek with contaminant levels exceeding a residential cancer risk and exceeding an ecological risk for sediment dwelling organisms.

Record of Decision

The Record of Decision (ROD) will be issued after the Proposed Plan is released and public comments are received.

Site Contacts

EPA Remedial Project Manager:	Katrina Higgins-Coltrain	214.665.8143 or 800.533.3508
EPA Site Attorney:	Barbara Nann	214.665.2157 or 800.533.3508
EPA Regional Public Liaison:	Arnold Ondarza	800.533.3508
ODEQ Oklahoma State Contact:	Meghan Lloyd	405.702.5135